

CLAIMS

What is claimed is:

1. A polymer derivatized with at least one -ONO group per 1200 atomic mass units of the polymer.
- 5 2. The polymer of Claim 1 comprising at least one -ONO group per 600 atomic mass units of the polymer.
3. An article capable of releasing NO wherein the article is coated with a polymer comprising at least one -ONO group per 1200 amu of the polymer.
4. The article of Claim 3 wherein the article is a medical device for implantation in 10 a subject or a tube or catheter for contacting the bodily fluid of a subject.
5. A method of delivering nitric oxide to a treatment site in a subject or to a bodily fluid comprising the steps of:
  - a) providing a medical device coated with a polymer having at least one -ONO group per 1200 amu of the polymer; and
  - 15 b) implanting the medical device at the treatment site or contacting the bodily fluid with the medical device.
6. A method of preparing an article capable of releasing NO comprising coating an article with at least one -ONO group per 1200 amu of the polymer.
- 20 7. The method of Claim 6 wherein the article is a medical device for delivering nitric oxide to a treatment site in a subject or a tube or catheter for contacting a bodily fluid of a subject .

8. The polymer of Claim 1 wherein the polymer is non-peptidyl.
  9. The polymer of Claim 2 wherein the polymer is non-peptidyl.
  10. The polymer of Claim 1, wherein the polymer is prepared from a polymer having a multiplicity of hydroxyl groups.
- 5 11. The polymer of Claim 5 wherein the polymer can form a hydrogel.
12. A method of replacing a loss of NO groups from an *O*-nitrosylated polymer at a treatment in an individual, said method comprising the step of administering to the individual a regenerating effective amount of a nitrosylating agent.